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# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Serial No: 10/587,701

Art Unit: 3663

Filed: July 27, 2006

Examiner: N/A

Subject: MULTI-USER ADAPTIVE ARRAY RECEIVER AND METHOD

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
P.O. Box 1450, Alexandria VA 22313-1450  
U.S.A.

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Sir:

To comply with applicants' duty of disclosure under 37 CFR 1.56, Form PTO/SB/08A, listing documents known to applicant, is submitted herewith.

- Copies non US patents are enclosed.
- This is a continuing application and copies of the documents were submitted in respect of the parent application No. .....

### Relevance of information not in English - 37 CFR 1.98(a)(3)

- To comply with 37 CFR 1.98(a)(3), EITHER a copy of US patent number ..... is submitted herewith, such US patent being cited in a family of patents corresponding to ..... patent number ..... listed in the form PTO/SB/08A. OR an English language abstract is appended to ... patent No. .... (document AX)
- Document # discloses
- The relevance of .... is discussed in the specification.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialled copy of form PTO/SB/08A be returned in accordance with MPEP Sec. 609.

The Commissioner is hereby authorized to charge any fee required to Deposit Account No. 20-0771.

Respectfully submitted



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DATE: April 18, 2007

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Docket No. AP893USN



U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

LIST OF INFORMATION CITED  
BY APPLICANT  
(use several sheets if necessary)

FILE

AP893USN

SERIAL NO.

10/587,701

APPLICANTS Université Laval

Roy

FILING DATE July 27, 2006

Nguyen, AU 2618

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS AND SUBCLASS	FILING DATE IF APPROPRIATE
/D.N./	AA	6,188,718	Feb. 13/01	R. D. Gitlin et al.		
/D.N./	AB	5,592,490	Jan. 7/97	C. H. Barratt		
/D.N./	AC	5515378	May 7/96	R. H. Roy, III and B. Ottersten		
/D.N./	AD	5,828,658	Oct. 27/98	B. Ottersten et al.		
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS AND SUBCLASS	TRANSLATION PROVIDED
	AL					
	AM					
	AN					
	AO					
	AP					

OTHER INFORMATION

/D.N./	AR	J. G. Proakis, Digital Communications, 3rd ed.. New York: McGraw-Hill, 1995, pages 152-163
/D.N./	AS	S. Verdu, Multiuser Detection. Cambridge: Cambridge University Press, 1998, pages 154-213
/D.N./	AT	J. Salz, "Digital transmission over cross-coupled linear channels," AT&T Tech. J., vol. 64, no. 6, July-Aug. 1985, pp. 1147-1159
/D.N./	AU	B. R. Petersen and D. D. Falconer, "Equalization in cyclostationary interference," Technical Report SCE-90-01, Dept. of Systems and Computer Engineering, Carleton University, Jan. 1990
/D.N./	AV	S. Roy and D. D. Falconer, "Modelling the narrowband base station correlated diversity channel," in Proc. CTMC'99, Vancouver, Canada, June 1999
/D.N./	AW	C. Farsakh and J. A. Nossek, "Spatial covariance based downlink beamforming in an SDMA mobile radio system," IEEE Trans. Comm., vol. 46, no. 11, pp. 1497-1506, Nov. 1998
/D.N./	AX	D. Gerlach, Adaptive Transmitting Antenna Arrays at the Base Station in Mobile Radio Networks, PhD dissertation, Stanford University, Stanford, U. S., August 1995

/D.N./	<b>AY</b>	G. H. Golub and C. F. Van Loan, Matrix Computations. Baltimore: Johns Hopkins University Press, 1989
/D.N./	<b>AZ</b>	M. V. Clark, Diversity and Equalization in Digital Cellular Radio, PhD dissertation, University of Canterbury, Christchurch, New Zealand, 1992
<b>EXAMINER</b>	/Duc Nguyen/	<b>DATE CONSIDERED</b>
		11/20/2008

\* EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.